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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/003,283	12/06/2001	Shinya Seno	217042US3	5250
22850	7590 05/25/2004		EXAMINER	
OBLON, SP	IVAK, MCCLELLAN	HEITBRINK, JILL LYNNE		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
	•		1732	
		D. (D.) () () () () () () () () ()		

DATE MAILED: 05/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Ar	plication No.	Applicant(s)				
Office Action Summary		10	0/003,283	SENO ET AL.				
		Ex	aminer	Art Unit				
		Jill	L. Heitbrink	1732				
Period fo	The MAILING DATE of this commu	nication appears	s on the cover shee	et with the correspondence	address			
A SH THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD IN MAILING DATE OF THIS COMMUN Insions of time may be available under the provision SIX (6) MONTHS from the mailing date of this come in period for reply specified above is less than thirty (c) period for reply is specified above, the maximum is the toreply within the set or extended period for reply reply received by the Office later than three months ed patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). munication. 30) days, a reply with tatutory period will ap y will, by statute, caus	In no event, however, main the statutory minimum opply and will expire SIX (6) the the application to become	ay a reply be timely filed of thirty (30) days will be considered to MONTHS from the mailing date of the ne ABANDONED (35 U.S.C. § 133).	is communication.			
1)⊠	Responsive to communication(s) file	ed on <u>05 April 2</u>	<u>2004</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-17 is/are pending in the application. 4a) Of the above claim(s) 8-17 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-7 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers							
10)	The specification is objected to by the drawing(s) filed on is/are Applicant may not request that any objected the drawing sheet(s) including the oath or declaration is objected the specific specific sheet is objected to the specific speci	: a) ☐ accepte ection to the draw g the correction is	ring(s) be held in about s required if the draw	eyance. See 37 CFR 1.85(a) ving(s) is objected to. See 37	CFR 1.121(d).			
Priority (ınder 35 U.S.C. § 119	•						
12)⊠ a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internationsee the attached detailed Office actions	documents hat documents hat of the priority conal Bureau (PC	ve been received. ve been received i locuments have be CT Rule 17.2(a)).	in Application No een received in this Natior	nal Stage			
2) 🔲 Notic 3) 🔯 Infor	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO-1449 o r No(s)/Mail Date 3/8/02.		Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (f	PTO-152)			

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Election/Restrictions

Applicant's election without traverse of Group I, claims 1-7 in Paper filed April 5,
 acknowledged.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 3, 6 and 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claim 3 recites the limitation "said outside air inlet part" in lines 1 and 2. There is insufficient antecedent basis for this limitation in the claim.
- 5. Claim 6(dependent on claim 2) recites the limitation "said outside air inlet part" in lines 2 and 3. There is insufficient antecedent basis for this limitation in the claim.
- 6. Claim 6(dependent on claim 1) recites the limitation "said slit" in line 3. There is insufficient antecedent basis for this limitation in the claim.
- 7. Claim 7(dependent on claim 2) recites the limitation "said outside air inlet part" in lines 2 and 3. There is insufficient antecedent basis for this limitation in the claim.
- 8. Claim 7(dependent on claim 1) recites the limitation "said slit" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 10. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Yasuda et al., Pat. No. 5,972,276. Yasuda et al. discloses the injection molding of a resin into the cavity followed by solidification (production of a shaped resin article), an outside air inlet part (col. 4, line 25) formed on said metal mold and opened to an optional part of said cavity (col. 4, lines 26 and 27) to allow the outside of the metal mold to communicate with the cavity inside, and a stepped part (col. 11, lines 18-26) formed within the cavity of the metal mold orthogonally to the flowing direction (see Fig. 1) of the molten resin injected into the cavity. The outside air inlet part being a slit is disclosed by Yasuda et al.'s gap (col. 10, line 65). The outside air inlet part or slit being formed in the stepped part or the boundary of the steps of the stepped part is shown by the gas introduction pin 8 being located in the stepped region bounded by the ribs as shown in Fig. 1 of Yasuda et al. The steps being continuous is disclosed by Yasuda et al. as shown in Fig. 1 and the shape of the article produced in Figs. 18-20, the ribs are continuous providing continuous steps. The gas feeding means for forcedly feeding a prescribed gas during and/or after the injection of the molten resin is disclosed by Yasuda et al. (col. 11, lines 34-38).
- 11. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Asai, Pat. No. 5,545,365. Asai discloses the injection molding of a resin into the cavity followed by solidification (col. 5, line 8), an outside air inlet part (29, Fig. 1) formed on said metal mold and opened to an optional part of said cavity (H) to allow the outside of

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3, lines 34-67).

the metal mold to communicate with the cavity inside, and a stepped part (gate G, corner formed by parts 25 and 24 and step formed by part 22) formed within the cavity of the metal mold orthogonally to the flowing direction (from nozzle N) of the molten resin injected into the cavity. The outside air inlet part being a slit (formed between ejector sleeve 24 and gate cutter 25) which is formed in the stepped part or the boundary of the steps of the stepped part. The steps being continuous is disclosed by

Asai which molds a disc shaped product. The gas feeding means for forcedly feeding a

prescribed gas after the injection of the molten resin is disclosed by Yasuda et al. (col.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jill L. Heitbrink whose telephone number is 571-272-1199. The examiner can normally be reached on Monday - Friday 9:30-2:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Colaianni can be reached on 571-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Jill L. Heitbrink Primary Examiner Art Unit 1732 Page 5

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